

FIG. 1

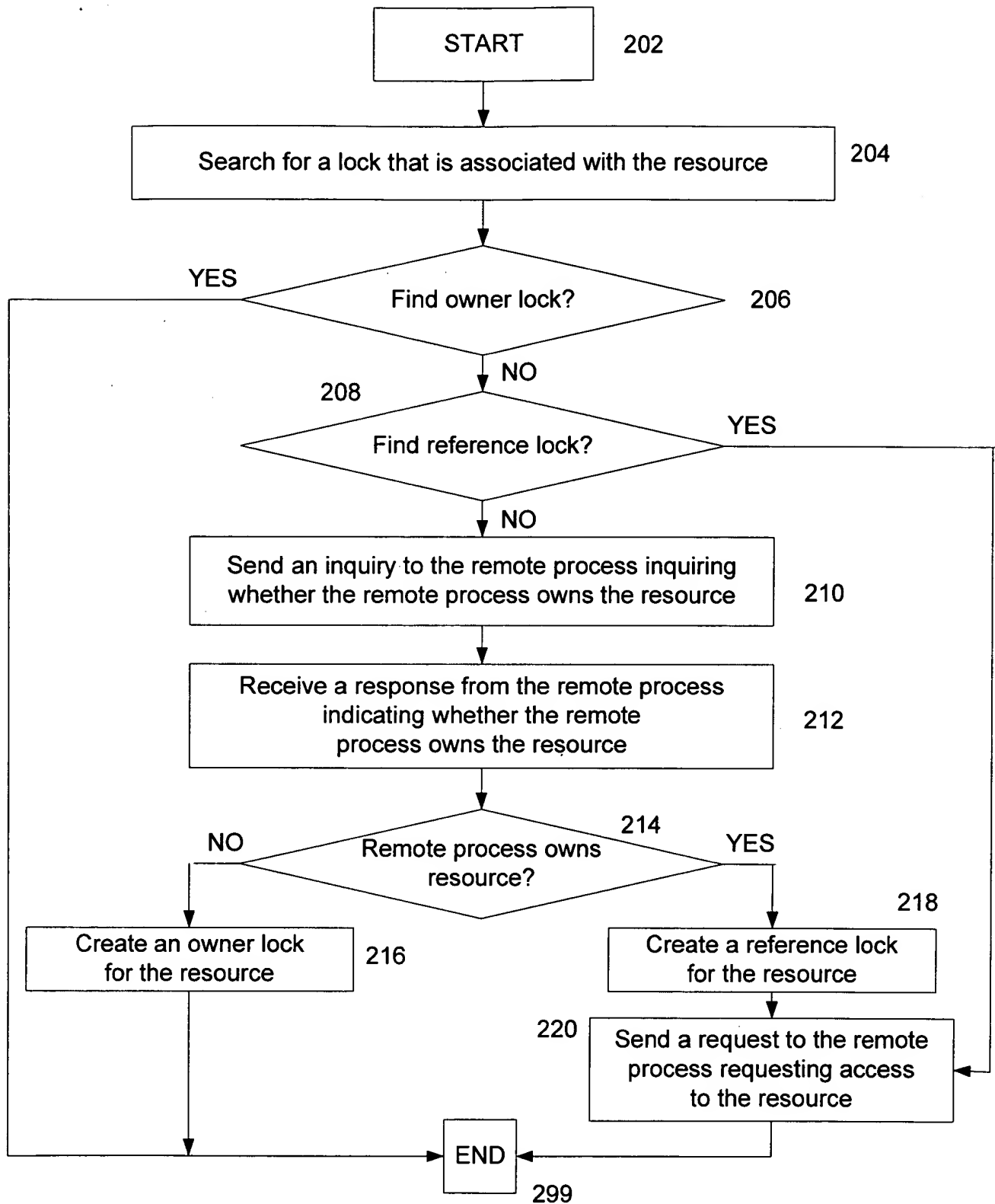


FIG. 2 (200) - ACCESSING A RESOURCE BY A PRIOR ART LOCAL PROCESS

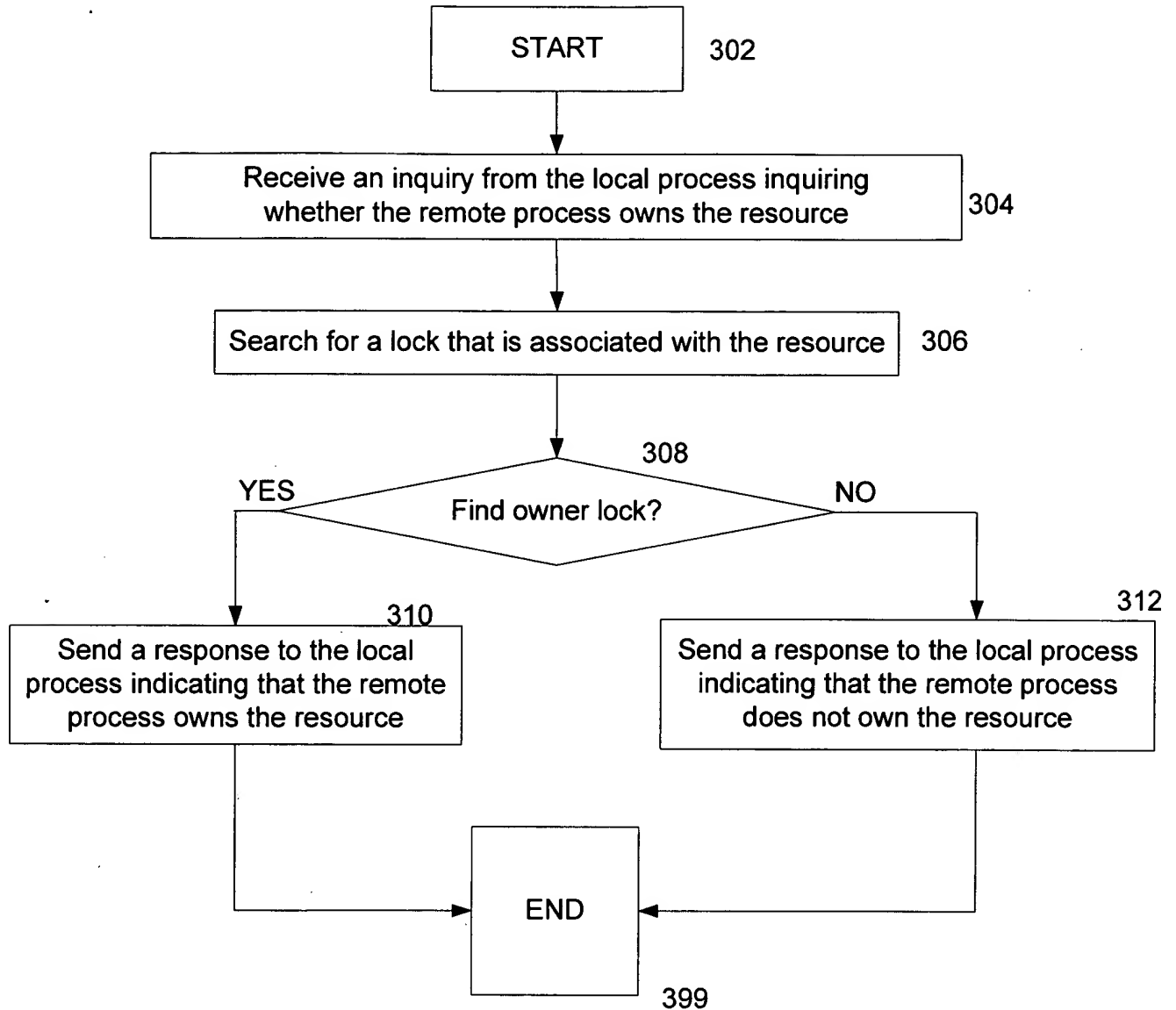


FIG. 3 (300) - PROCESSING AN INQUIRY BY A PRIOR ART REMOTE PROCESS

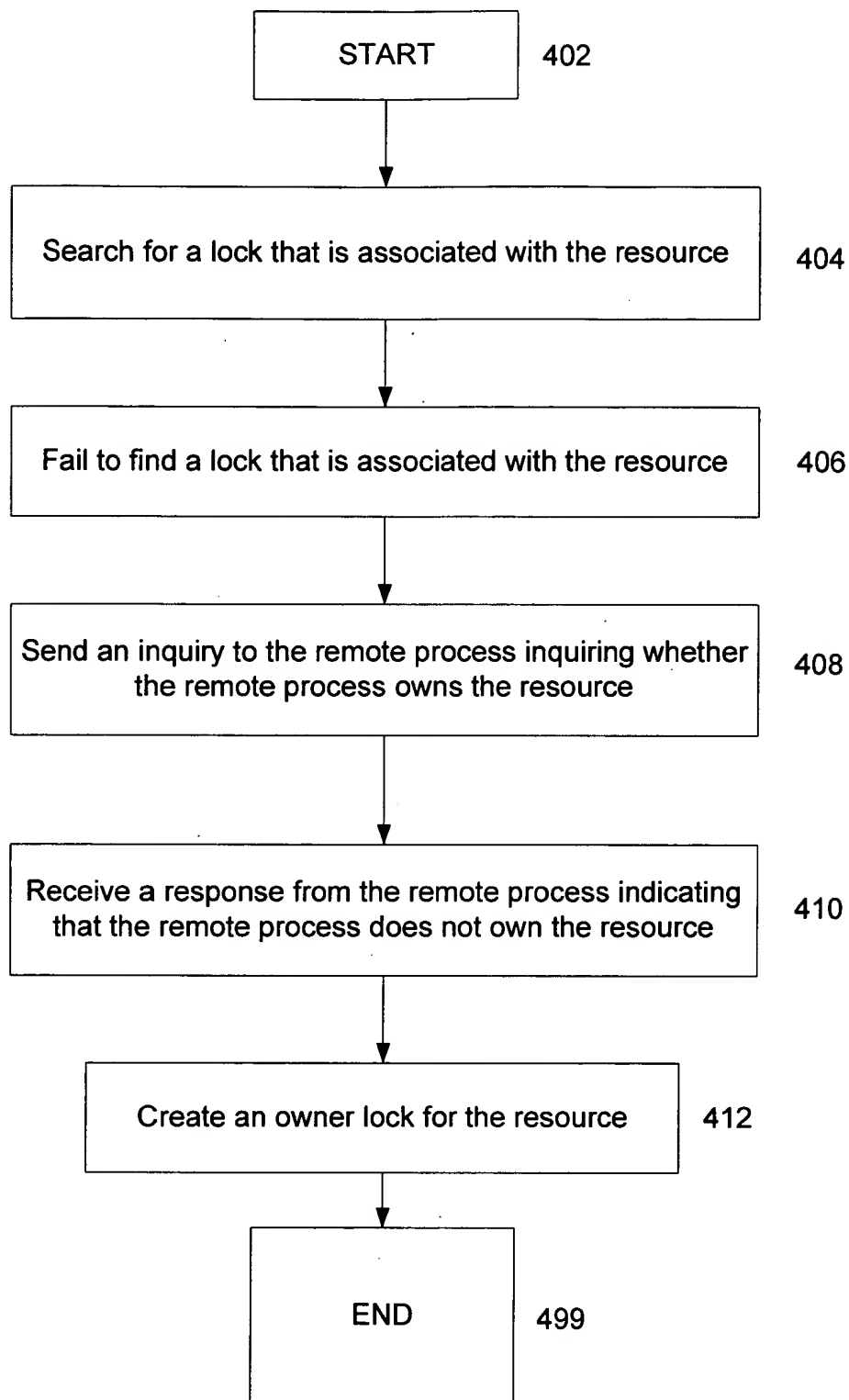


FIG. 4 (400) - CREATING AN OWNER LOCK BY A LOCAL PROCESS

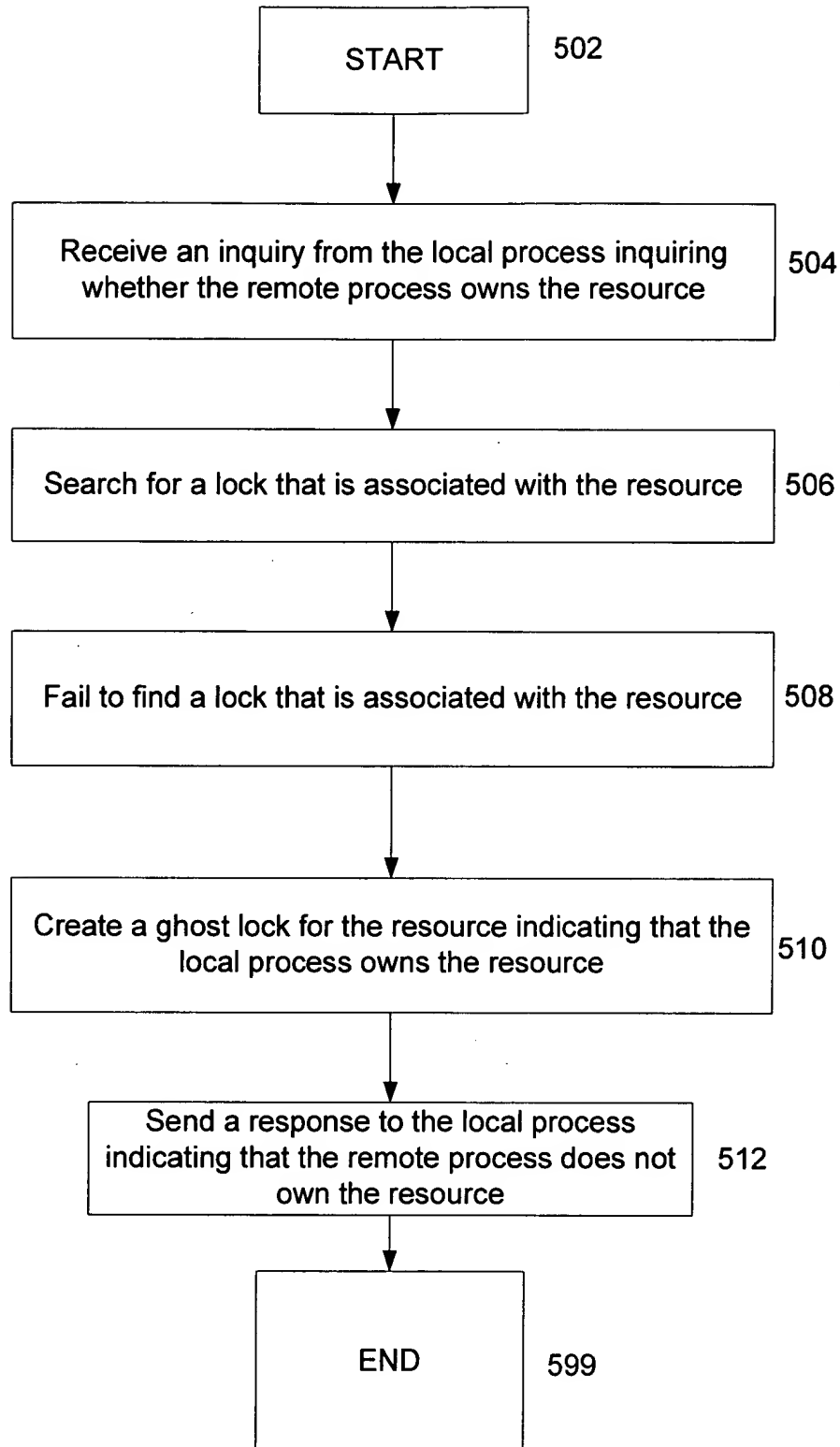


FIG. 5 (500) - CREATING A GHOST LOCK BY A REMOTE PROCESS

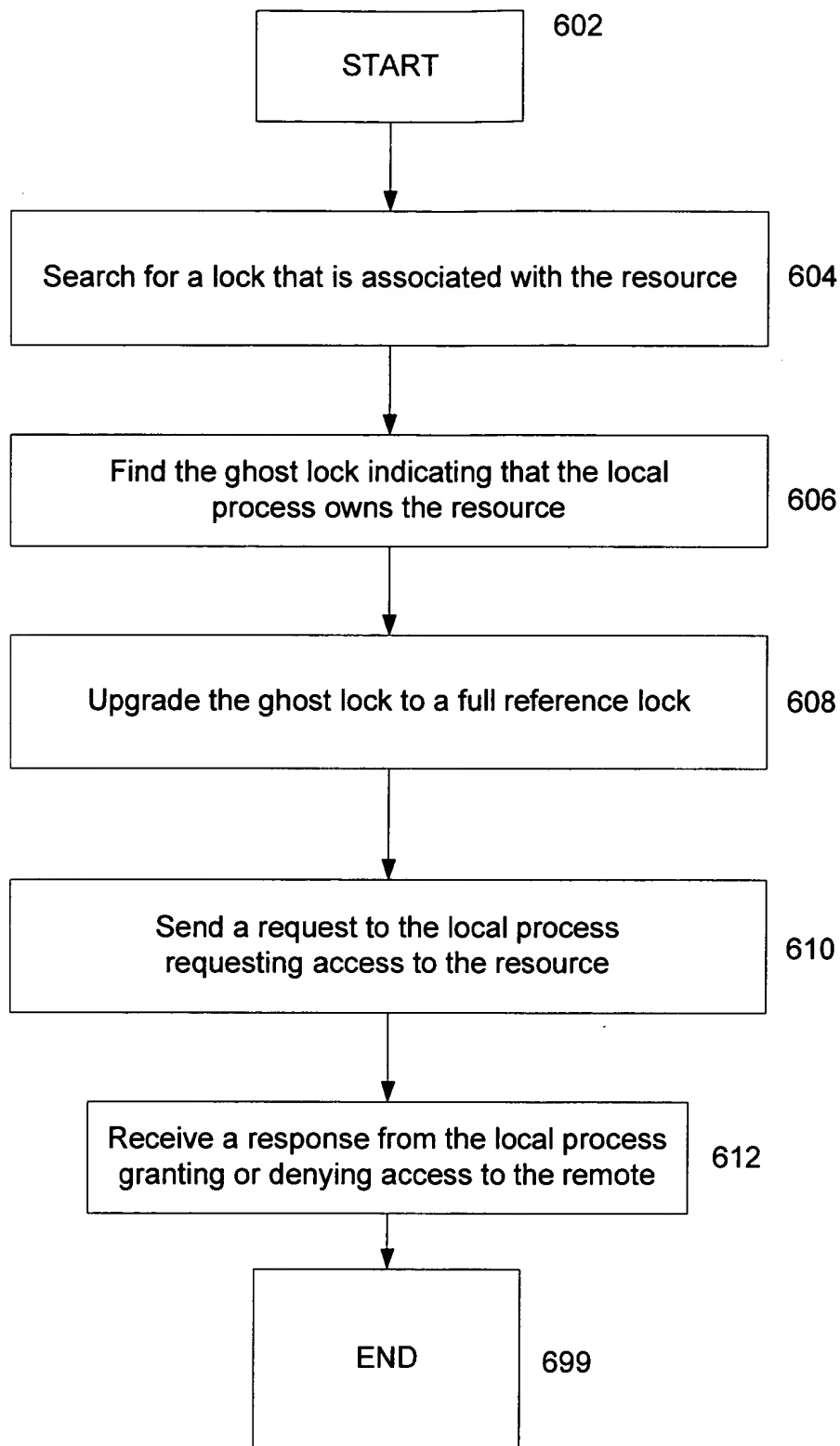


FIG. 6 (600) - UPGRADING A GHOST LOCK TO A REFERENCE LOCK

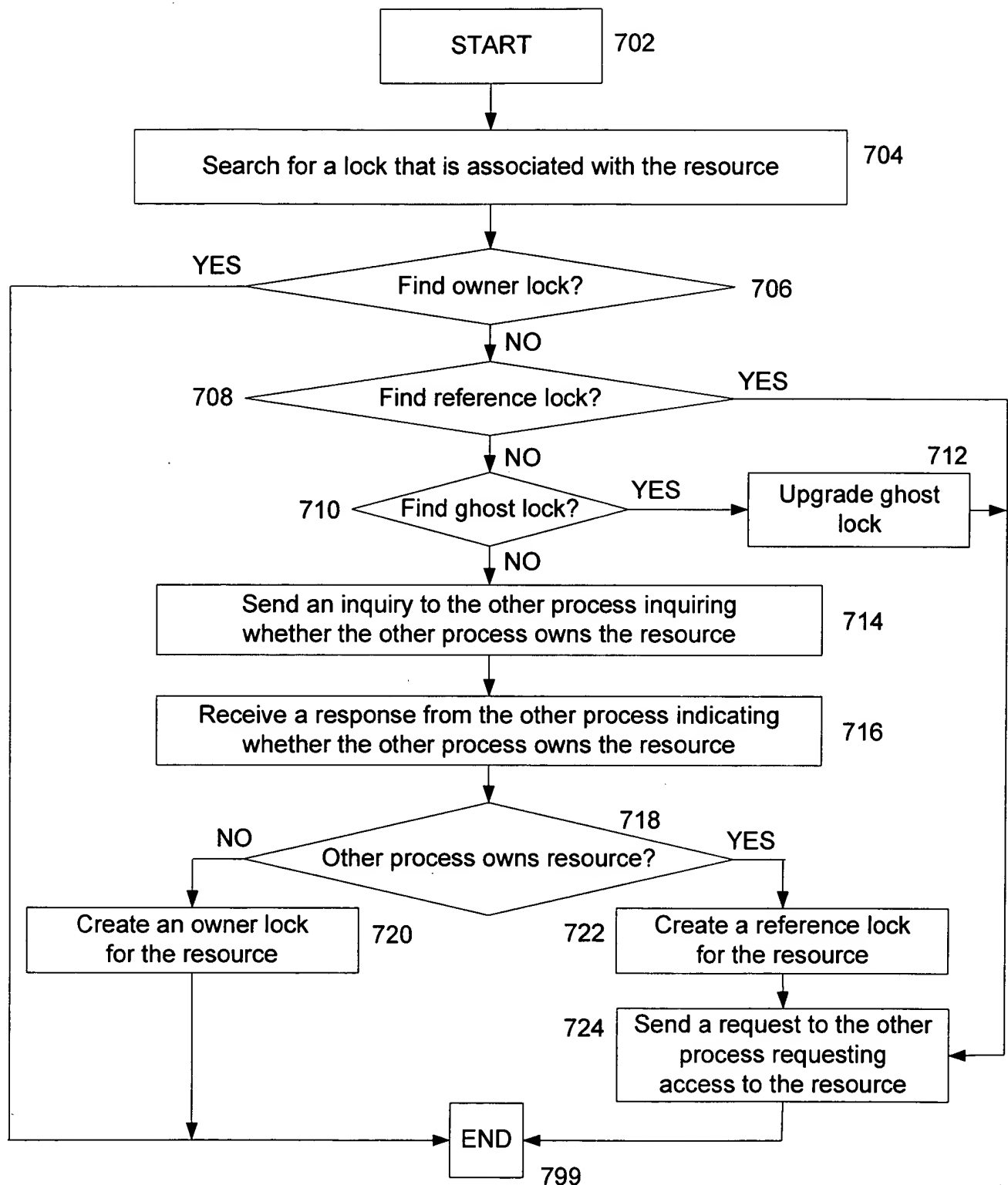


FIG. 7 (700) - ACCESSING A RESOURCE

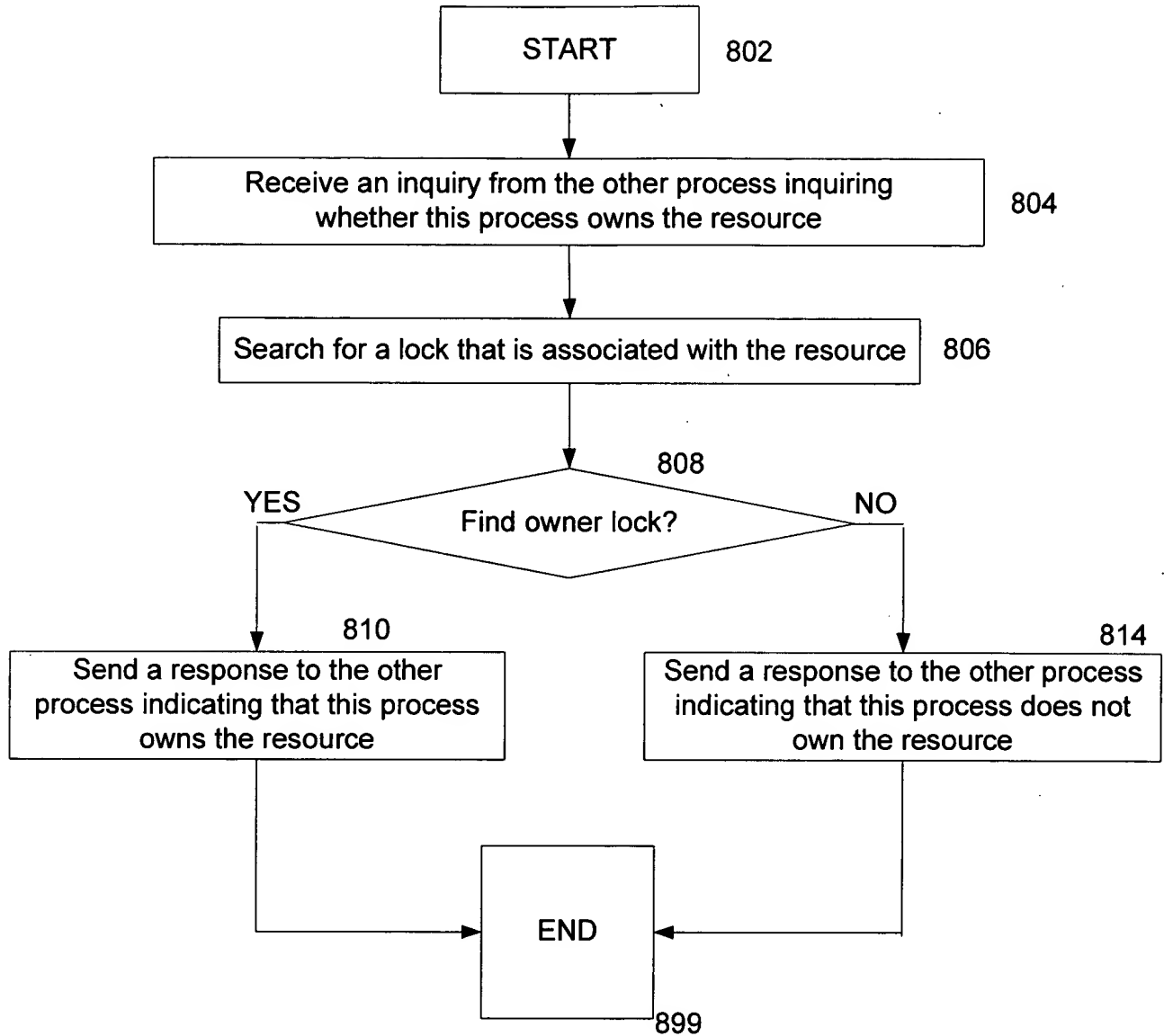


FIG. 8 (800) - PROCESSING AN INQUIRY

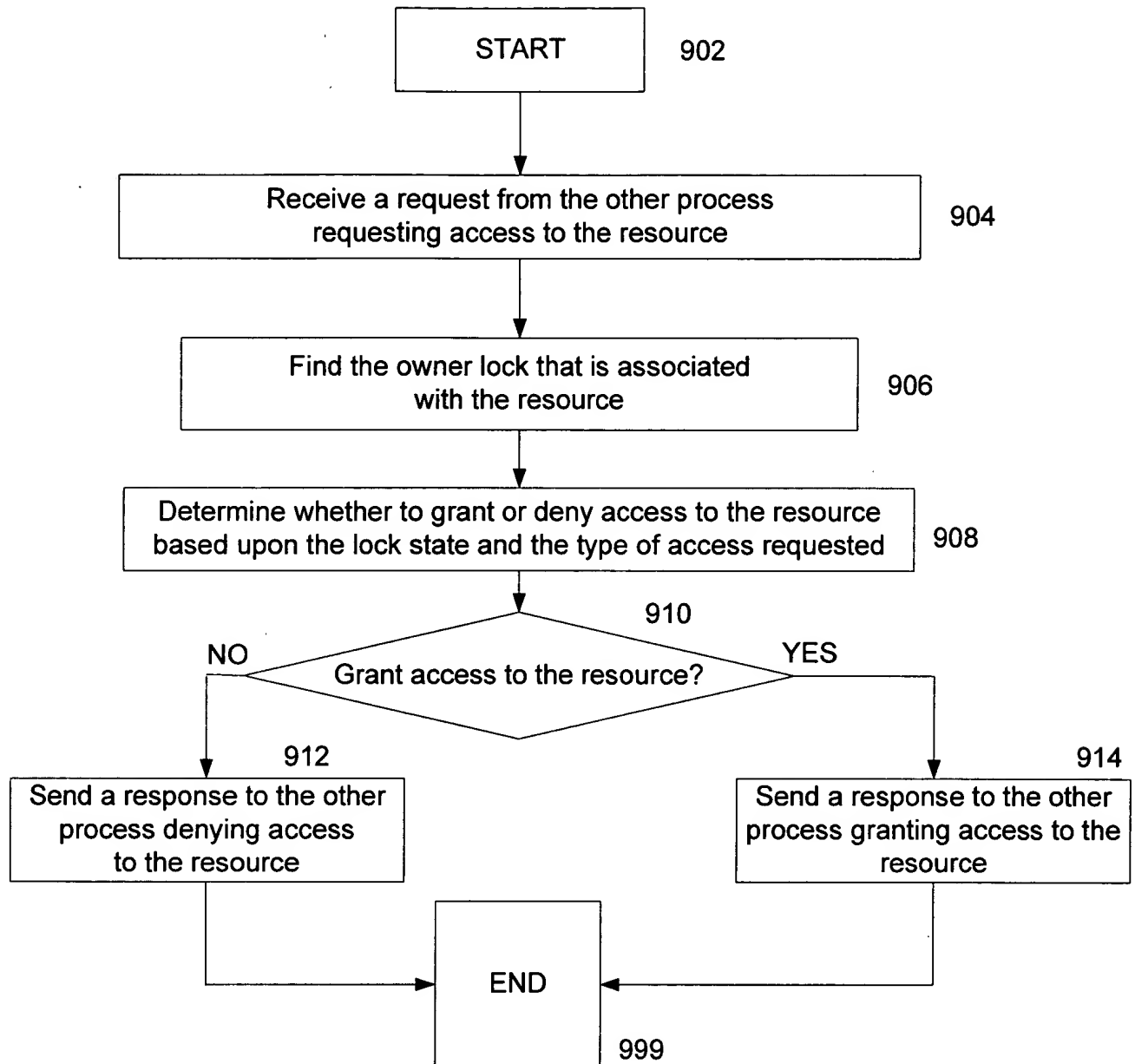


FIG. 9 (900) - PROCESSING A REQUEST

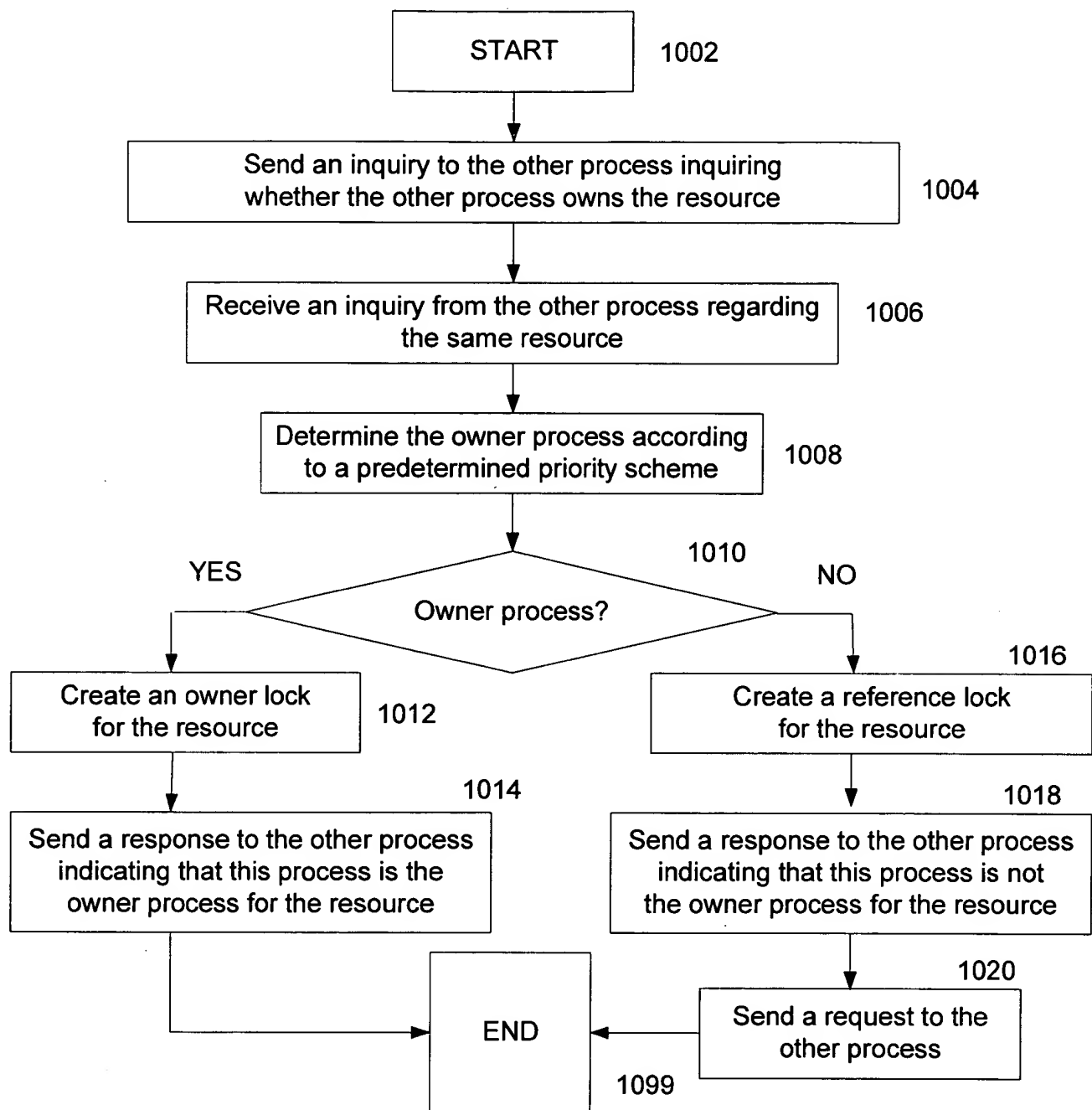


FIG. 10 (1000) - RESOLVING A COLLISION CONDITION

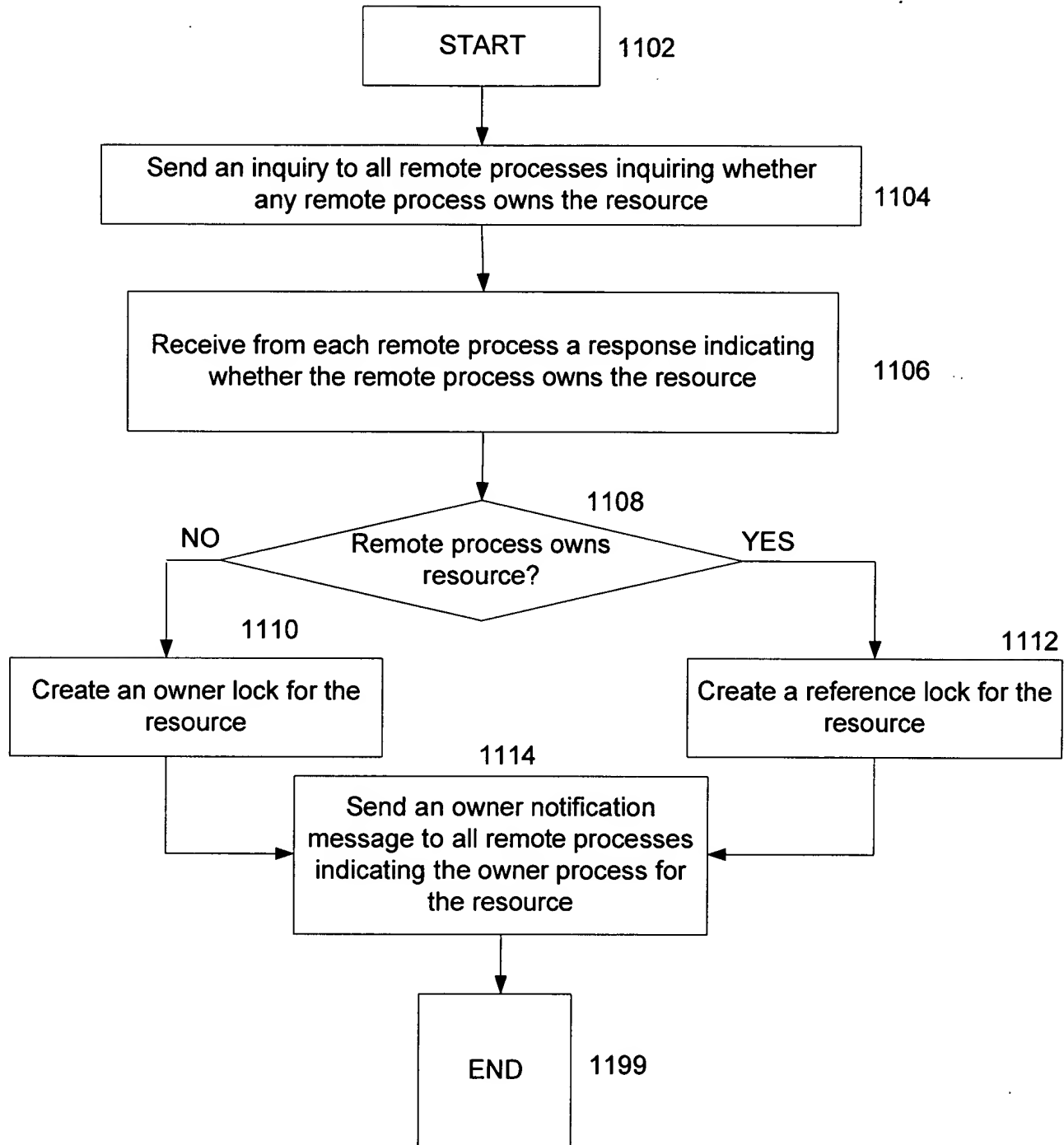


FIG. 11 (1100) - EXPLICIT NOTIFICATION MECHANISM TO DETERMINE OWNER

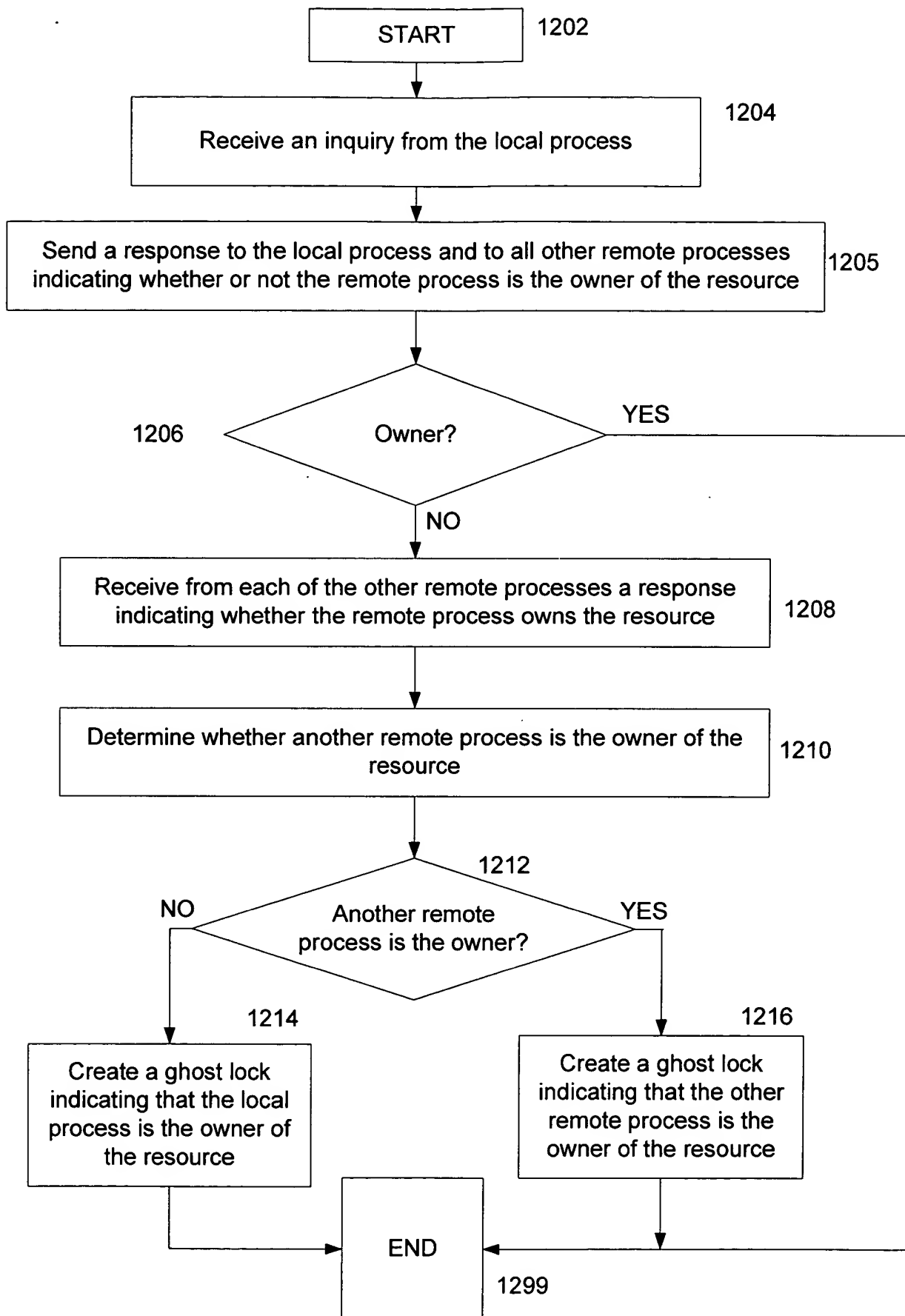
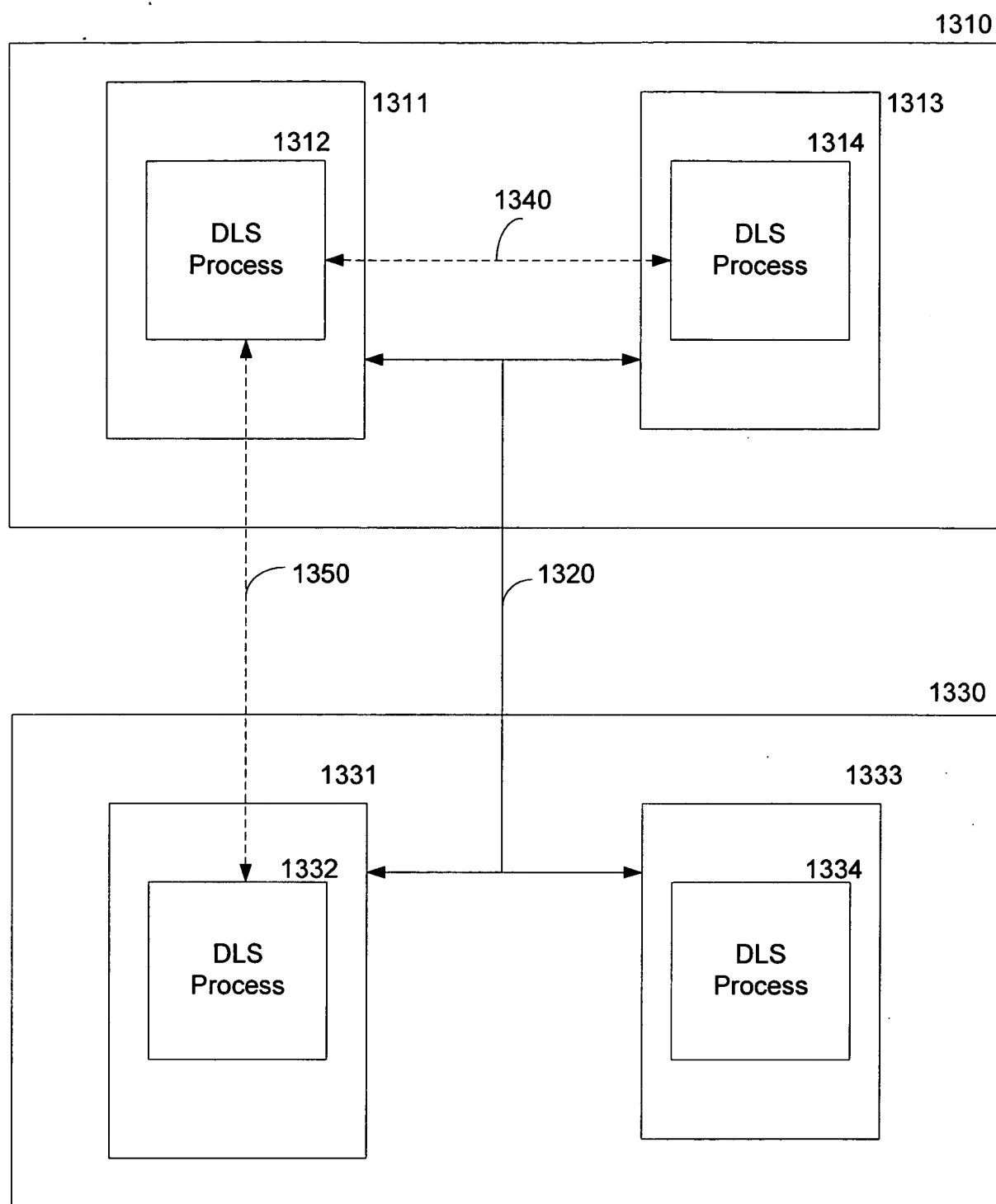


FIG. 12 (1200) - IMPLICIT MECHANISM TO DETERMINE OWNER



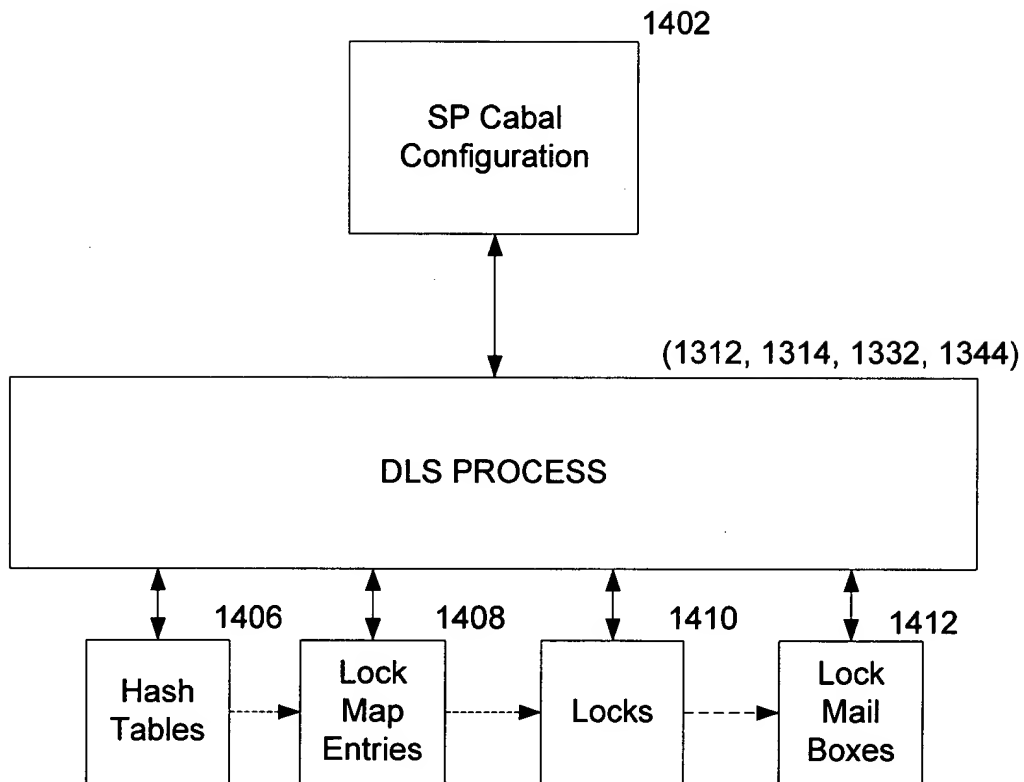


FIG. 14

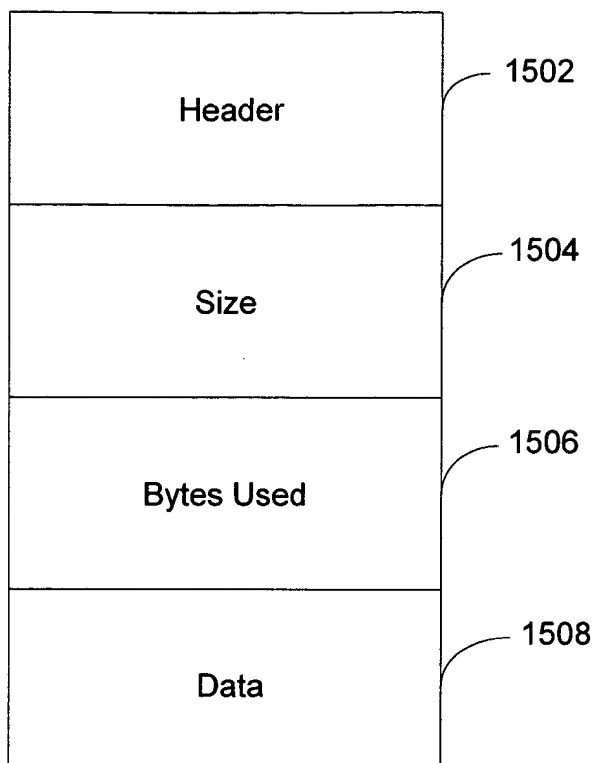


FIG. 15 (1500) - LOCK MAILBOX DATA STRUCTURE

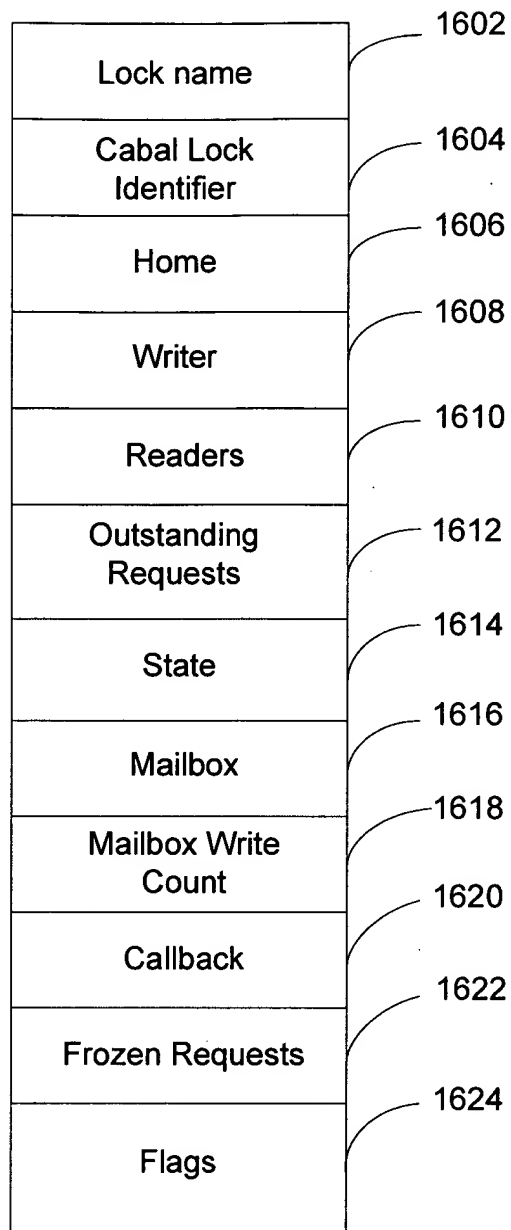


FIG. 16 (1600) - LOCK DATA STRUCTURE

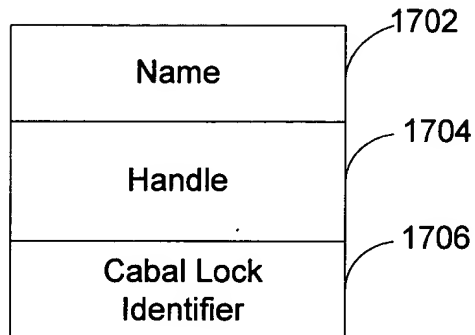


FIG. 17 (1700) - LOCK MAP ENTRY DATA STRUCTURE

| | |
|--|------|
| Lock Name indicates the name of the lock | 1802 |
| Cabal Lock Identifier indicates the cabal-wide identifier for the lock | 1804 |
| Home indicates the owner of the lock | 1806 |
| Writer indicates any SP that reserved the resource for writing | 1808 |
| Readers indicates any SP(s) that reserved the resource for reading | 1810 |
| Outstanding Requests lists any outstanding requests for the lock | 1812 |
| State indicates the state of the lock | 1814 |
| Mailbox points to a corresponding lock mailbox | 1816 |
| Mailbox Write Count indicates the number of write accesses granted | 1818 |
| Callback indicates a callback routine | 1820 |
| Frozen Requests lists any requests received while lock is frozen | 1822 |
| Flags | 1824 |

FIG. 18 (1800) - OWNER-REFERENCE LOCK

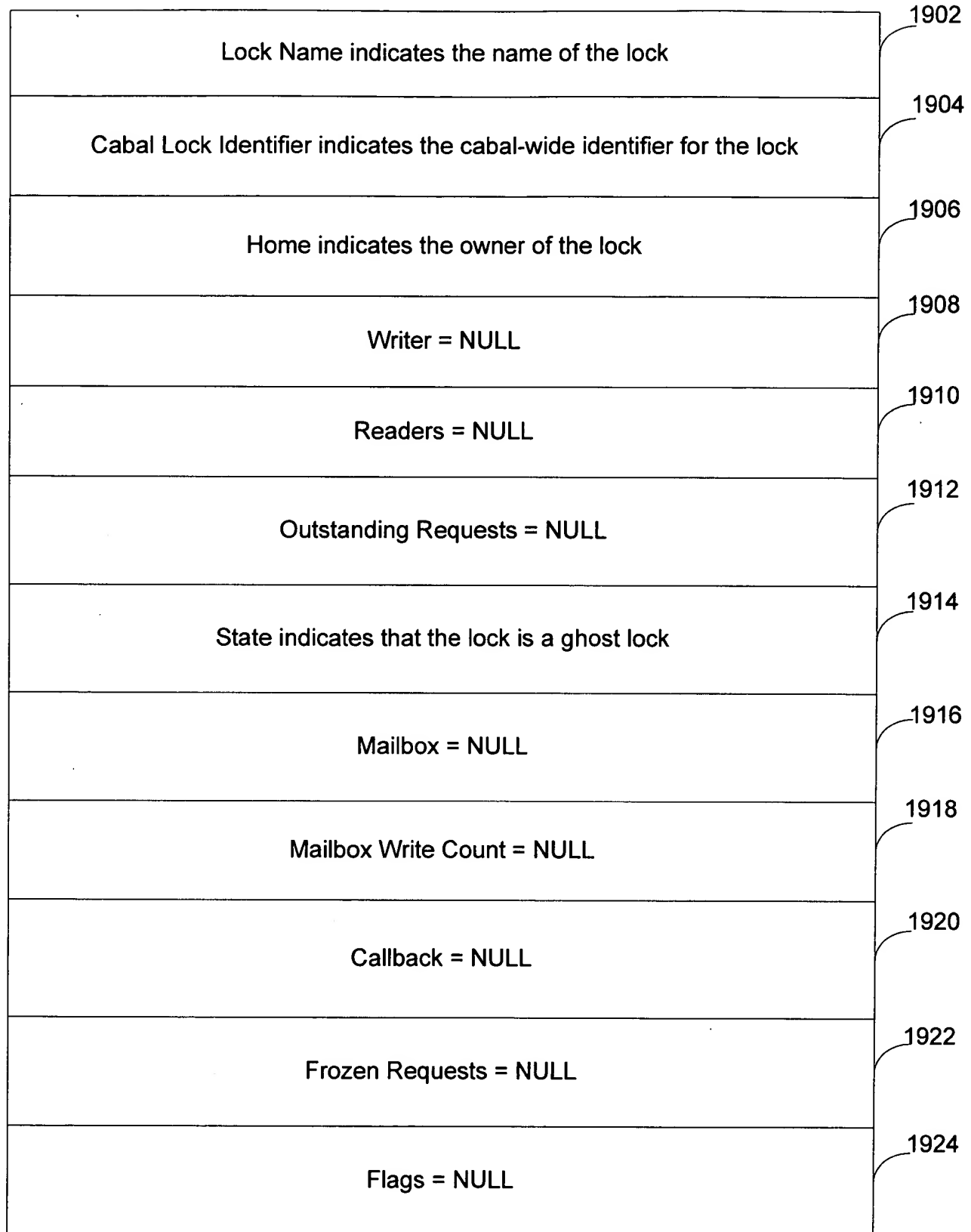


FIG. 19 (1900) - GHOST LOCK